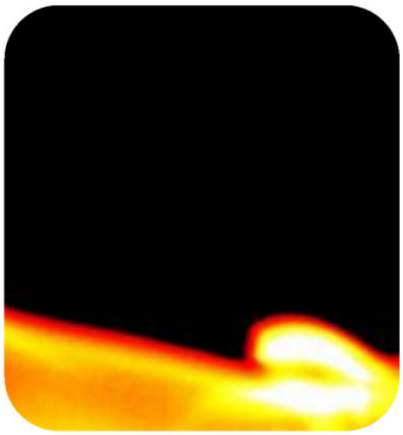
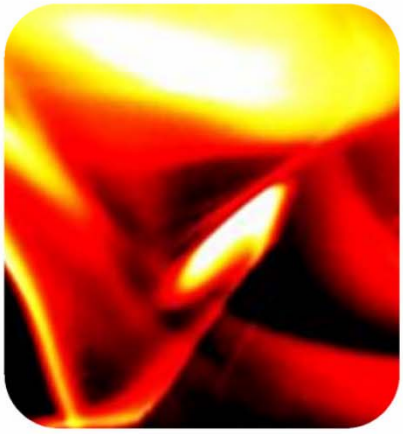




CANALI *design*

CALORE E STILE

GAIA 6-8 kW

IMPORTANT:

THIS MANUAL SHOULD BE READ CAREFULLY AND RETAINED AND AS AN INTEGRAL PART OF THE PRODUCT, ALWAYS MAKE SURE THAT IS ALWAYS MADE AVAILABLE WITH THE STOVE EVEN IF YOU TRANSFER TO ANOTHER OWNER.

IF LOST , REQUEST A COPY TO YOUR NEAREST DEALER .

We are pleased and honoured that our company has been chosen by you, to assist you in handling heating and whilst we thank you for the confidence granted, we request that you please pay close attention to this manual which has been written as simple as possible, so that even the least expert, can handle the stove in the best way, using it in all its efficiency. Therefore we request that you please read carefully the manual in order to prevent persons, objects or parts of the stove itself.

The user manual and maintenance is divided into 11 chapters.

1) Specifications of the stoves.

2) Legend for details

3) Flue features

4) Assembly and installation.

5) Stove start-up

6) Preparation for the first start-up

7) Electricity shortage

8) Maintenance, cleaning and inspections to be carried out.

9) Guarantees.

10) Electrical drawings.

11) Instructions for display handling

1)TECHNICAL SPECIFICATIONS OF STOVES:

All CANALI DESIGN by DMT Srl products are manufactured according to EU guidelines:

89/106 EEC (Construction Products), EC 2004/1008 (EMC Directive), 2006/95 EC (LVD) and to regulations EN 14785, EN 60335-1, EN 60335-2-102, EN 61000-3-2, EN 61000-3-3, EN 55014-1, EN 55014-2, EN 62233

MODEL	GAIA 6	GAIA 8
TECHNICAL FEATURES		
POWER SUPPLY (V)	230	230
FREQUENCY (Hz)	50	50
POWER REQUIRED DURING START-UP(W)	400	400
POWER REQUIRED DURING RUNNING(W)	160	160
CO concentration (mg/cubic meter) AT MAX. POWER LEVEL	205	248,8
CO concentrazone (mg/cubic meter) AT REDUCED POWER LEVEL	422,8	422,8
THERMAL EFFICIENCY		
EFFICIENCY (%) AT NOMINAL HEAT OUTPUT	92,61	92,02
EFFICIENCY (%) AT REDUCED POWER	92,8	92,8
MAXIMUM NOMINAL HEAT OUTPUT (kW)	6	8
VOLUME THAT CAN BE HEATED(m^3)	150	190
HEAT OUTPUT AT REDUCED POWER(kW)	3	3
NOMINAL HEAT OUTPUT TO THE ENVIRONMENT	5,3	7,9
THERMAL POWER TO ENVIRONMENT AT REDUCED POWER	3	3
FUEL (WOOD PELLET)		
PELLET DIAMETER (MM.)	6-7	6-7
PELLET LENGTH (MM)	10-30	10-30
TANK CAPACITY AND AUTONOMY		
TANK CAPACITY (Kg)	~25	~25
RATED RUNNING AUTONOMY AT MAX. POWER LEVEL (h	21	16
RATED RUNNING AUTONOMY AT MIN. POWER LEVEL (h)	38	38
WEIGHT		
NET WEIGHT (Kg)	142	142
FLUE AS TO REGULATIONS - UNI 10683		
MINIMUM DIAMETER (mm)	80	80
EXHAUST GAS FLOW (G / S) (NOMINAL)	5,8	6,8
EXHAUST GAS FLOW (G / S) (REDUCED)	5,2	5,2
T-MAX FUMES AT MAXIMUM POWER	99,6	118,7
T-MAX SMOKE AT REDUCED POWER	77	77
DEPRESSION 3-7 (Pa)	5	5

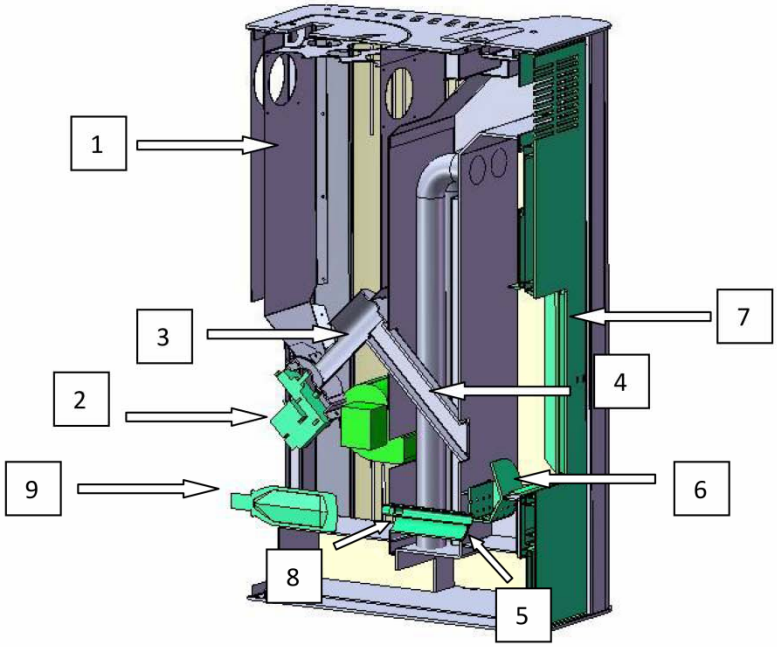
** Indicative volume calculated on the base of an environment suitably insulated and average height 2.8 m

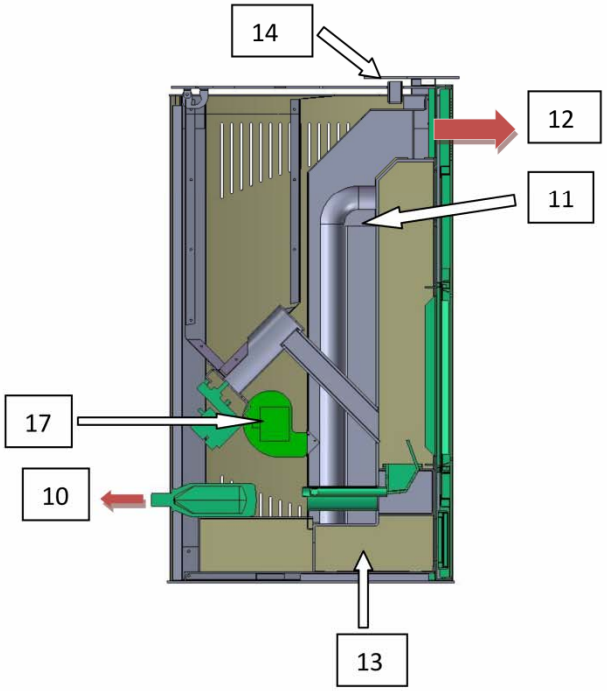
<> CO calculated at 12% oxygen

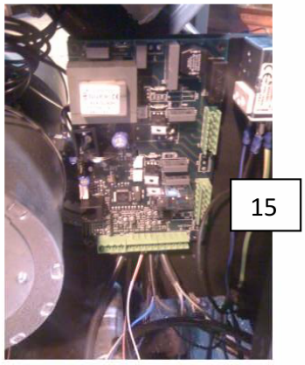
Please note that THE ELECTRICAL SYSTEM TO WHICH THE STOVE IS CONNECTION MUST BE PROPERLY GROUNDED.

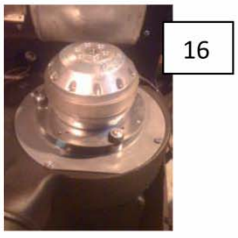
N.B. : Each stove is subjected to functional testing at the factory prior to shipment so you could possibly detect the presence of residue from combustion.

2) LEGEND OF DETAILS









Position:

1. Pellet Fuel Tank

2. Automatic pellet feeding system

3. Auger for pellets

4. Pellet feed Pipe

5. Air inlet for combustion Ø 50 mm

6. Stainless Steel Brazier

7. Ceramic glass

8. Spark plug

9. Smoke extractor

10. Smoke outlet Ø 80 mm

11. Heat exchanger tubes

12. Hot air stream exits

13. Deposit for collecting ashes and dust

14. Dehumidifier water container

15. Control board (left side)

16. Fume exhaust motor

17. Heated air ventilation motor

3) FLUE FEATURES:

The flue is essential for safety, reliability of the stove and its maximum output, so you should have it checked by suitably qualified personnel that are qualified to perform in accordance with current standards UNI 10683, otherwise the company is not liable for any malfunction of the stove.

For the best performance of the stove, the stove that you have bought is equipped with low temperature fume exhaust gas and therefore it is important that the chimney meets certain rules and that its efficiency is always maintained . Here are some suggestions please check:

• Combustion products from our heater must not be extracted into shared flues. eg. fireplaces, boilers, hoods.

• The flue must be sealed and air tight , there must be no air infiltration, by any joints, it should be in vertical position , constant section, having the inner surface smooth and well isolated from the outside to prevent condensation and excessive fume cooling .

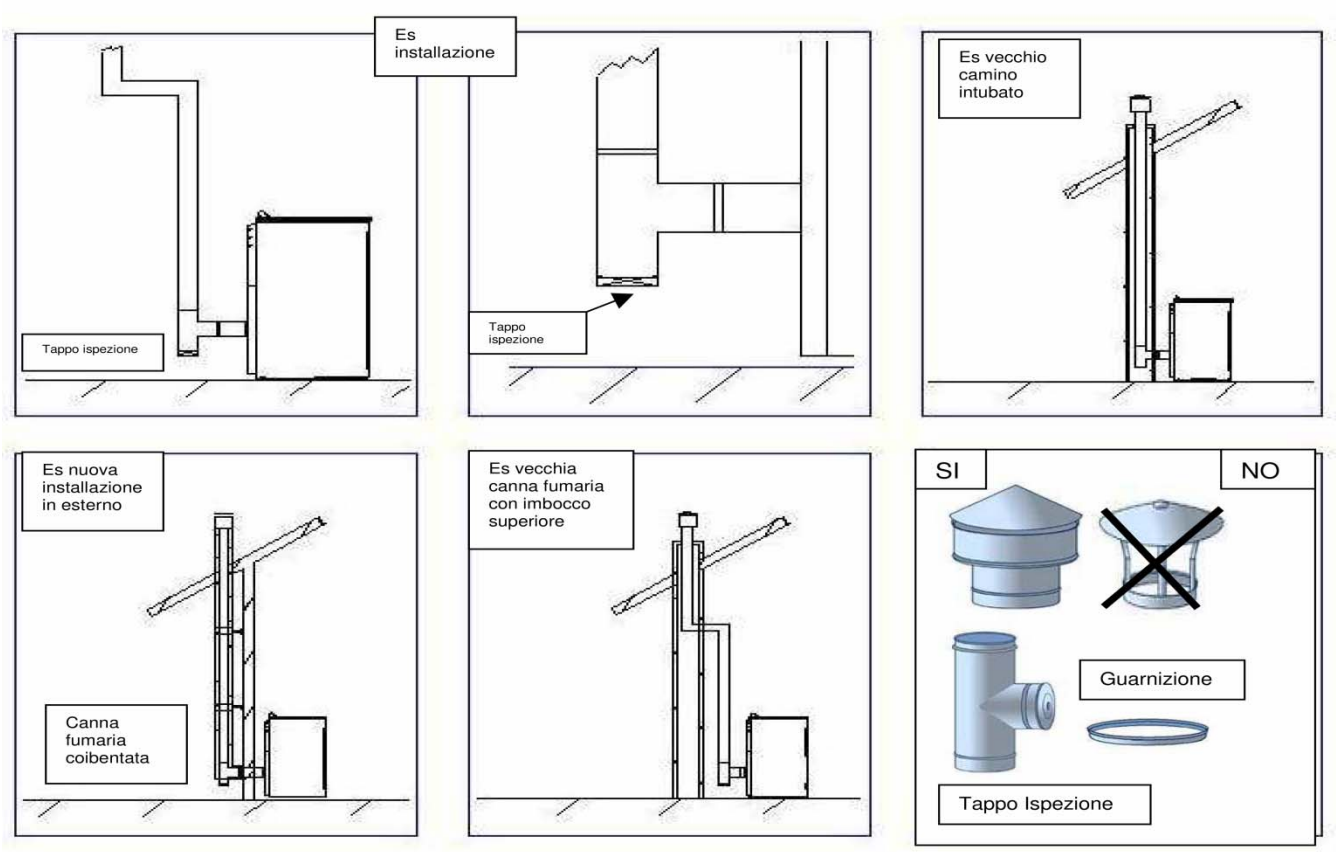
• the lower end there must be equipped with a small inspection door to allow removal of combustion residues.

• internal diameter minimum 80mm, all connections must be sealed and air tight (seal or silicone seal to 350 ° C), The steel flue pipe must be suitable insulated with a high temperature- resistant rock wool or vermiculite material

• Depression in flue 0.10 / 0.15 mb.

• The chimney terminal should prevent the wind from entering the flue

The figures below show are some examples of flues feasible.



AIR REQUIRED FOR COMBUSTION:

When we burn something with the fuel for example : wood, gasoline, plastics, etc. (in our case pellet stove) we also burn part of the air around the fire, therefore during operation the stove , the stove itself extracts air from the room in which it is installed This AIR therefore needs to be fed back .

The air must be taken from outside through an opening of minimum 100 cm2 to have (to

have an air exchange of 35-40 m^3 hours), this opening must be suitably protected by a mesh to prevent animals or whatever to obstruct the passage.

4) ASSEMBLY AND INSTALLATION INSTRUCTIONS:

For this operation, contact a dealer or an authorized technician from the motherhouse.

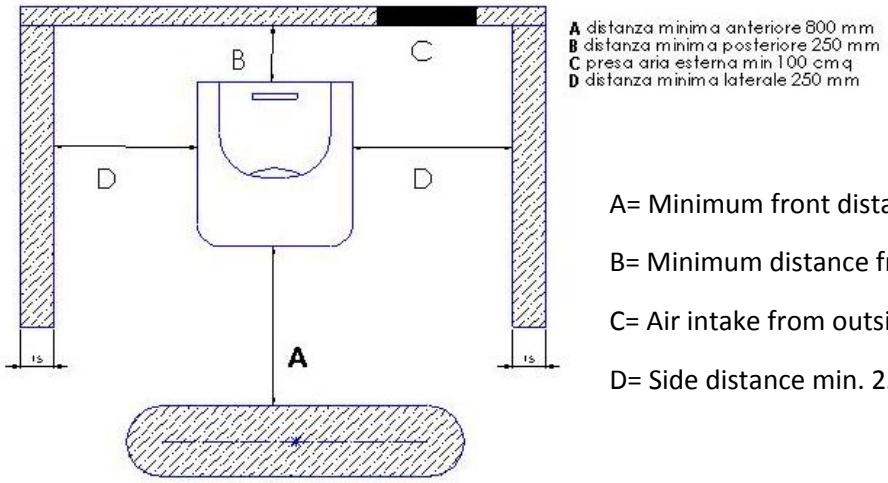
Manufacturer, in compliance with local , national and European regulations

a) After removing the packaging check that the heater is integral in all its parts: glass , side coverings and control panel (if not, contact your dealer).

b) Place the stove in the expected location in order to connect the flue pipe Ø 80 mm and power supply socket for voltage 230 V - 50 Hz . Make sure the voltage does not drop below 215V, in which case the heating resistance could have problems in reaching the required temperature resulting in delayed / missed ignition of the pellets. In this case, report this to our customers assistance service which will act within suitable manners to calibrate the stove avoiding the problem of missed lighting.

c) The stove must be placed flat on the floor and placed in a stable manner and if necessary by adjusting the feet, the floor must be flame-proof if the if the floor is made of combustible material it is advisable to protect it using a sheet of non-combustible material placed underneath and around the heater. Ensure that the distances reported under fig. a) and that the stove is away of inflammable objects.

Fig. a



A= Minimum front distance 800 mm.

B= Minimum distance from rear 250 mm.

C= Air intake from outside min. 100 cm.q.

D= Side distance min. 250 mm

e) The household mains power supply switch must be accessible, the cable must not come into contact with hot parts of the stove and the grounding system must be efficient.

5) START-UP HEATER:

The stove that you have purchased uses as ***wood pellets*** and no other type of fuel can be used

WHAT 'THE PELLET?

The pellets are made by applying high pressure to sawdust, that is pure waste wood (without paint) products from sawmills, carpentry workshops and other activities related to wood processing.

This type of fuel is completely environmentally friendly because you do not use any glue to hold it

compact. In fact, the compactness of the pellets over time is guaranteed by a natural substance that is in the wood: lignin.

In addition to being an environmentally friendly fuel, as they use wood residues, pellets

also has technical advantages.

Pellet density is 650 kg / m 3 and the water content is 8% of its weight. For this reason

is not necessary to season the pellet to obtain a sufficiently acceptable heating yield.

The pellet used must conform to the characteristics described by the Standard:

• Ö-Norm M 7135

• DIN 51731 plus

• CEN / TS 14961

CANALI DESIGN BY DMT Srl recommended always to use pellets with a diameter of 6 mm. for their products .

WARNING!

USE OF LOW QUALITY PELLETS OR ANY OTHER MATERIAL WILL DAMAGE THE PERFORMANCE OF YOUR STOVE AND CAN DETERMINE THE TERMINATION AND INVALIDATION OF LIABILITY OF MANUFACTURER WARRANTY ANNEXED

PELLET STORAGE

To ensure problem-free combustion, the pellets must be stored in a dry place.

6) PREPARATION FOR FIRST START-UP AND CONTROL PANEL DESCRIPTION:

1) Load the tank with the pellet by opening the top door and closing it, taking care that no other object can fall into the fuel tank.

2) Make sure the front door is locked, and that the burning pot is properly positioned in its housing. Failure to close may result in poor combustion and thus the malfunction of the stove, the incorrect positioning of the burning pot generates a wrong position with respect to the lighting resistance in respect to the pellet and consequently difficulty in starting-up it will also results in an erroneous air flow in the burning pot with consequences to the normal combustion process.

3) Check that the heater is properly connected to household mains power supply using the supplied cable supplied with the stove and inserting it into the plug at the back of the stove.

4) Check that the ash tray is well closed, failure of this could cause that some smoke could come out and anyhow it would cause a malfunction of the stove.

5) the stove is ready for start-up , to switch on press the ON button to start it (you should read the control panel instructions , attached to this manual before you press the ON button).

6) Use the unit with the door shut properly, in respect with all national and European standards, in case the stove reports alarms , operate as ***described in the manual of the display*** and in any case do not switch-off power.

7) During the first two hours of running of the stove , please pay attention to the following:

A. The first lighting of the stove can give odours and fumes, so we recommend to well ventilate the area and avoid lengthy stays of people in the same room and of children.

B. Do not touch the surfaces of the stove because this could cause stain the surfaces.

C. Run the stove at a medium power level so that all units can settle.

Warnings during normal running operation:

• Do not switch-off power supply

• The glass door of the stove and the top of the stove, including the pellet pan handle and humidifier lid are usually zones with a higher temperature but that can be tolerated without causing burning, so use appropriate protection when you have the need to touch these areas .

• The appliance is not intended to be used by people (including children) whose physical, sensory or mental capabilities are reduced, or having lack of experience or knowledge, unless they have benefited, through the intermediary of a person responsible for their safety, supervision or instruction concerning use of the device. Children should be supervised to make sure that they do not play with the appliance.

• In case of failure please consult the control display manual section and locate the alarm reported on the display and operate as described in that manual.

07) Electricity shortage .

The heater will automatically turn off and the display will indicate the fault “OFF AFTER POWER FAILURE.” At the restart, the display will indicate “POWER AFTER POWER FAILURE”

08) MAINTENANCE, CLEANING AND CHECKS TO BE CONDUCTED (by customer)

With variable frequency, depending on usage and type the pellet used.

DAILY CLEANING: (to be carried out by the user)

Cleaning the glass ceramic: With stove at a complete stop and glass cold , spray some glass detergent onto a cloth, rub clean and then carefully close the door.

Cleaning the burning pot **(to be carried out by the user)**

The stove must be at a complete stop and cold, check the status of the grid holes and remove any impurities or pellet residuals from the holes in the burning pot. During the first day of work , check every day the status. In absence of problems you can checks with less frequency . Replace the burning pot , making sure that support is well positioned into the housing .

The burning pot is removed by just lifting out of the housing

Using a vacuum cleaner , clean all the areas surrounding the burning pot.

WEEKLY ACTION: (**to be carried out by the user)**

After using about 50 kg of pellets is necessary to clean the ash and dust from storage compartment and from the heat exchangers. The frequency of cleaning is closely linked to the type of pellet used. Then carefully close the door with the screw-nut making sure that the gasket rests well in his housing. (refer to photo).

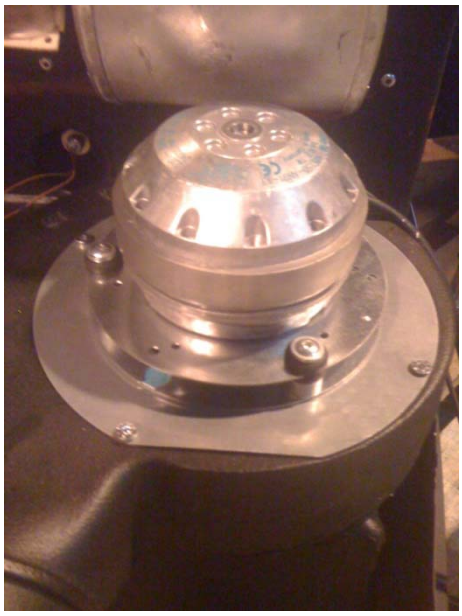
ANNUAL ACTION: (**to be carried out by the user**)

Fume path cleaning Frequency: Lift the top and release the cap which is screwed . Loosen the screws and remove the cap, remove the turbulators and clean with a brush of the heat exchanger pipes, dropping residuals towards the bottom of the exchanger so that you can then remove in the manner described in the previous section , i.e.: through the lower front door. Reassemble taking care to close the screws.

When the stove is not running and is cold, unscrew the allen screw and open the door . With a vacuum cleaner , remove the residue on the bottom of the stove, taking care to reach the back of the bottom compartment

CLEANING FLUE COLLECTOR AND FAN: (should be done by qualified personnel)

Switch-off the supply power by disconnecting the plug and remove the back panel. Remove all hose connections, flue gases, power supply and encoder connections. Unscrew the 4 allen screws that secure the motor to the cast iron support. Clean the casing of the extraction smoke duct , clean the fan and reassemble everything, making sure a properly seal all parts.



CONTROL OF SEALING GASKETS : (should be done by qualified personnel)

Check the status of the seals and gaskets on the door and on the ash trays , they must be intact to ensure the seal between the parties involved, otherwise it must be replaced (contact after sales support).

CONTROL AND POSSIBLE FLUE CLEANING: (should be done qualified personnel)

Check the flue pipe through inspection box or taps .Close everything, making sure that all segments are sealed and airtight .

CLEANING THE TANK PELLET: (should be done by the end user)

It may be necessary (and this depends on the pellet used) to clean the bottom section of the pellet tank from excessive dust accumulated. The presence of excessive dust is an indication that the pellet is of poor quality. Before commencing this operation , disconnecting the power outlet and only then use a vacuum cleaner to remove the residual parts of pellet.

AT EACH END OF SEASON CHECK AND CLEAN ALL THE ABOVE PARTS AND ALWAYS DISCONNECT THE POWER SUPPLY BEFORE COMMENCING ANY CLEANING OPERATION

09) WARRANTIES:

Valid in Italy in compliance with European Directive 99/44/EEC.

The product is guaranteed for a period of 2 years from the date of purchase, subject to proper completion, by the installer ,of the testing and maintenance manual supplied. The terms of the warranty are fully reproduced in the express warranty provided.

Please note that WARRANTY WILL BE VOID in the following events :

1) The stove has been installed by unauthorized technician.

2) The heater is not using the proper fuel.

3) The stove is not used in accordance with the instructions reported in the manual.

4) The oven is not kept clean and controlled in its vital parts as provided by the manual . In any case, for any problem, the link between customer and manufacturer will always and only be through the dealer, and the request must always be sent to the dealer.

5) there is inadequate flue

6) The guarantee shall be automatically suspended for non payment of the goods on time and in the manner agreed upon,

CANALI DESIGN by DMT Srl disclaims all liability for any inconvenience caused by failure to comply with the standards prescribed in this manual. The manufacturer's liability is limited to the supply of the stove and all and any interventions on behalf of specialized technical team from CANALI DESIGN by DMT Srl will be supported and charged to the user.

This stove is meant for use for the purposes for which it was specially designed.

It does not include any contractual or non-contractual liability of the manufacturer for damages caused to persons, animals or objects, due to installation, adjustment and maintenance and improper use and unauthorized changes, and the use of spare parts not recommended by the manufacturer

The warrantee excludes :

The seals/gaskets , hardened glass ceramic , external coverage , painted parts , chrome, gold, ceramic tiles and electrical wiring.

Color changes, crazing, and slight size differences of ceramics or in the metal sheet parts do not constitute grounds for complaint because they are natural characteristics of the materials.

The warranty excludes any calibrations or adjustments to the product in relation to fuel type and the type of installation.

Law court :

For any dispute , the law court of Frosinone will be held valid and the legislation will be under Italian law.

Document to store and display in the event of a claim under warranty

Name

Surname

Address

C.a.p.

Town and Province of residence

Phone

Model

Serial No.

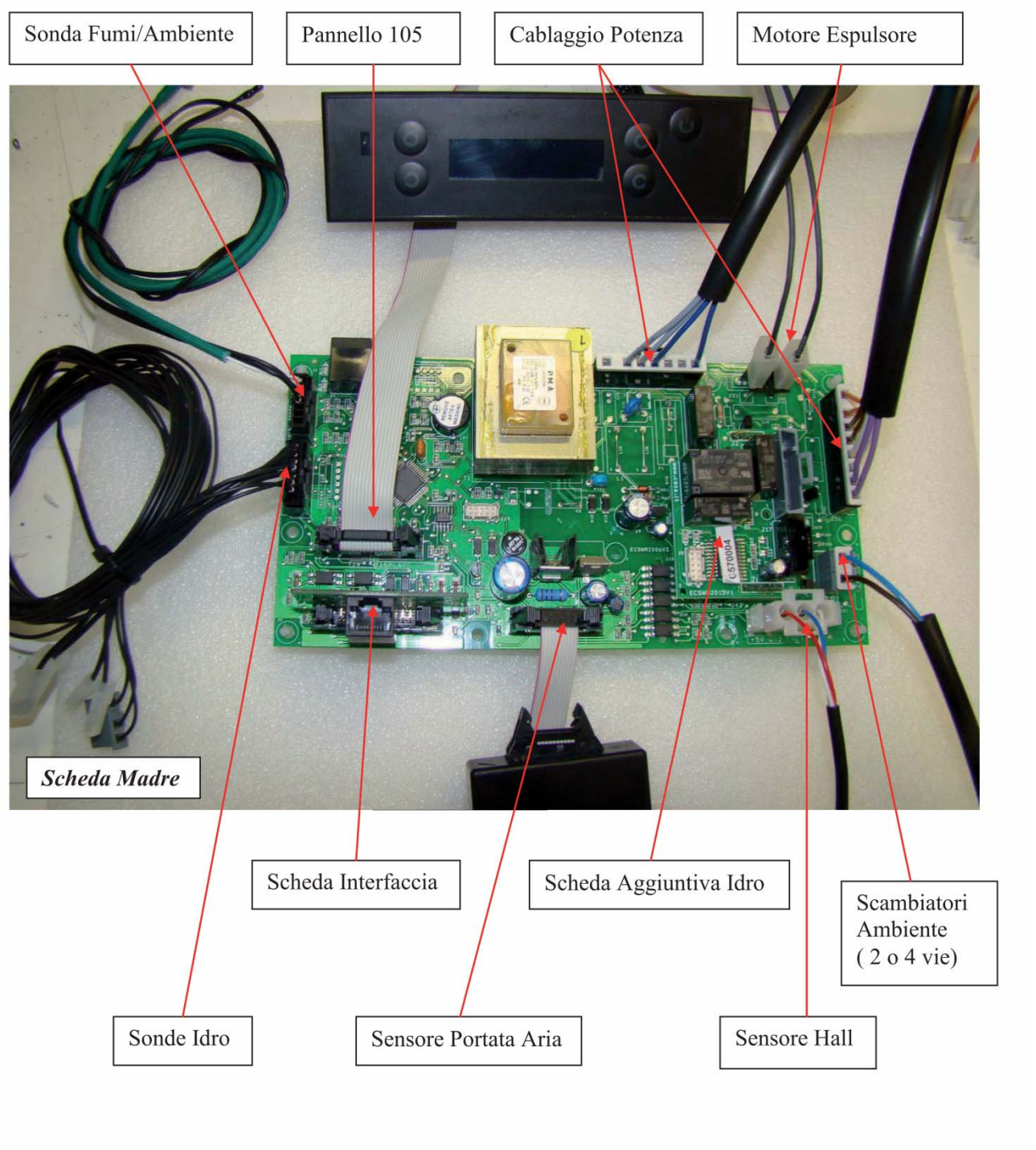
Retailer

Purchase Date

IMPORTANT: I agree I agree

Information pursuant to Legislative Decree. 196/2003 - Your personal data are processed by the undersigned company in full compliance with the decree no. 196/2003 for the entire duration of the contract and even after the completion of all legal obligations and to achieve effective management of business relationships. The data may be disclosed to other parties outside only in relation to credit protection and better management of our rights to the single commercial relationship, as well as communicated to any third party in execution of specific legal obligations to us. The taxpayer has the right to exercise the rights conferred by Article 46 of Decree .7

10) SIMPLIFIED WIRING:



11) CONTROL PANEL INSTRUCTIONS (SEE MANUAL INCLUDED)